



Water-Data Report UT-2005

**09279000 ROCK CREEK NEAR MOUNTAIN HOME, UT**

Green River Basin

LOCATION.--Lat 40°29'36", long 110°34'39" referenced to North American Datum of 1927, in SE ¼ NW ¼ SW ¼ sec.9, T.1 N., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on right bank at Lower Stillwater damsite "B", 0.1 mi upstream from Corral Creek, 6.8 mi downstream from South Fork, and 11.9 mi northwest of Mountain Home.

DRAINAGE AREA.--147 mi<sup>2</sup>.

**WATER-DISCHARGE RECORDS**

PERIOD OF RECORD.--October 1937 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area, WDR UT-95-1; 1994.

GAGE.--Water-stage recorder. Elevation of gage is 7,250 ft above NGVD of 1929, from river-profile map. Prior to April 12, 1939, nonrecording gage at site 300 ft upstream at different datum.

REMARKS.--Records good. Flow partially regulated by Upper Stillwater Reservoir 8 mi upstream, beginning November 3, 1987. Total capacity, 32,000 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,920 ft<sup>3</sup>/s, Jun 18, 1971, gage height, 5.98 ft; maximum gage height, 6.26 ft, Jun 4, 1986, from floodmarks; minimum recorded, 2.1 ft<sup>3</sup>/s, Dec 16, 2004, Feb 6, 2005 (probably caused by ice jams above station).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,150 ft<sup>3</sup>/s, May 28, gage height, 4.75 ft; minimum daily discharge 32 ft<sup>3</sup>/s, Nov 29, minimum discharge, 2.1 ft<sup>3</sup>/s, Dec 16, Feb 6.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	44	43	35	41	46	47	39	55	861	180	135	54
2	44	39	34	39	50	47	40	57	856	176	171	54
3	44	39	36	39	46	46	43	55	845	174	174	55
4	44	39	36	39	48	45	45	55	799	172	173	56
5	44	38	37	39	46	44	44	56	755	169	173	55
6	44	38	38	37	45	45	46	64	755	166	170	54
7	43	38	37	42	46	44	49	60	753	164	169	54
8	43	40	39	39	46	45	53	58	745	157	168	55
9	44	43	40	40	48	45	49	58	731	151	169	60
10	44	40	39	42	46	46	46	62	723	149	165	61
11	46	41	38	42	47	45	45	64	712	146	157	56
12	45	42	38	39	48	48	47	61	697	147	152	55
13	44	41	38	49	48	47	49	58	680	149	146	55
14	43	39	37	43	46	45	49	57	664	148	146	55
15	42	38	38	41	47	43	48	58	668	156	124	55
16	42	37	37	41	48	40	49	60	670	184	62	54
17	42	37	36	40	48	39	50	61	689	204	60	54
18	46	37	37	40	57	39	51	59	710	205	58	54
19	49	38	37	41	48	38	50	60	736	195	57	54
20	78	35	36	41	47	38	48	126	773	200	56	54
21	74	37	42	41	48	37	47	240	793	202	57	59
22	59	38	52	43	46	38	46	534	820	201	58	56
23	51	38	33	42	46	39	47	700	841	201	57	57
24	50	38	33	46	48	39	59	814	812	202	56	56
25	52	38	39	45	48	40	57	895	578	200	56	55
26	52	36	39	45	47	39	52	949	454	195	55	55
27	54	38	39	45	47	39	51	1,040	336	171	55	57
28	65	37	40	45	48	40	52	884	329	124	56	57
29	52	32	40	45	---	38	51	785	253	119	54	56
30	48	33	40	45	---	38	49	856	188	119	55	55
31	46	---	39	44	---	38	---	848	---	118	54	---
Total	1,518	1,147	1,179	1,300	1,329	1,301	1,451	9,789	20,226	5,244	3,298	1,667
Mean	49.0	38.2	38.0	41.9	47.5	42.0	48.4	316	674	169	106	55.6
Max	78	43	52	49	57	48	59	1,040	861	205	174	61
Min	42	32	33	37	45	37	39	55	188	118	54	54
Ac-ft	3,010	2,280	2,340	2,580	2,640	2,580	2,880	19,420	40,120	10,400	6,540	3,310

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	55.3	51.2	48.7	46.5	46.6	49.0	48.8	120	239	170	88.1	71.6
Max	133	135	137	123	111	116	111	431	743	599	241	253
(WY)	(1998)	(1998)	(1998)	(1998)	(1998)	(1998)	(1999)	(1997)	(1999)	(1998)	(1999)	(1999)
Min	32.0	30.2	29.5	27.3	29.0	29.9	33.5	41.3	43.7	44.0	41.8	38.4
(WY)	(1990)	(1990)	(1991)	(1991)	(1988)	(1988)	(1995)	(1992)	(1992)	(1991)	(1991)	(1993)

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**SUMMARY STATISTICS**

	<b>Calendar Year 2004</b>	<b>Water Year 2005</b>		<b>Water Years 1988 - 2005</b>	
<b>Annual total</b>	16,546	49,449			
<b>Annual mean</b>	45.2	135		86.4	
<b>Highest annual mean</b>				212	1999
<b>Lowest annual mean</b>				40.1	1992
<b>Highest daily mean</b>	78	Oct 20	1,040	May 27	1,310
<b>Lowest daily mean</b>	32	Nov 29	32	Nov 29	22
<b>Annual seven-day minimum</b>	35	Nov 28	35	Nov 28	26
<b>Annual runoff (ac-ft)</b>	32,820		98,080		62,600
<b>10 percent exceeds</b>	57		383		150
<b>50 percent exceeds</b>	44		49		46
<b>90 percent exceeds</b>	37		38		33

